

What is claimed is:

1. A method of producing 1,2-propandiol, the method comprising:
(a) incubating *Klebsiella pneumoniae* in a medium containing 10-30 g/L of a
sugar carbon source excluding 6-deoxyhexose, in aerobic conditions; and
5 (b) separating 1,2-propandiol from the cultures.

2. The method of claim 1, wherein the medium includes an organic acid
intermediate metabolite.

10 3. The method of claim 2, wherein the organic acid intermediate
metabolite is selected from the group consisting of pyruvate, fumarate, citrate, and
succinate.

15 4. The method of any one of claims 1 through 3, wherein the sugar
carbon source is selected from the group consisting of arabinose, fructose, galactose,
glucose, lactose, maltose, sucrose, xylose, and a combination of the foregoing
sugars.

20 5. The method of any one of claim 1 through 3, wherein the medium
contains 5-15 g of Na_2HP_4 , 3-8 g of KH_2PO_4 , 0.5-4 g of NH_4Cl , 2-7 g of NaCl , 3-10 g
of yeast extract, 0.1-3 mmol of MgSO_4 , and 10-30 g of glucose per liter.

25 6. The method of any one of claims 1 through 3, wherein the incubating of
Klebsiella pneumoniae in the medium is performed at pH 5-8 and a temperature of
30-37°C.

7. The method of any one of claims 1 through 3, wherein oxygen is
supplied at 0-1 vvm during the incubation.

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